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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/722,991	11/27/2000	Oleg Yaroshchuk	KSU-189	5867	
75	590 04/04/2003				
Ray L. Weber, Esq. Sixteenth Floor First National Tower			EXAMINER		
			DUDEK, J	DUDEK, JAMES A	
Akron, OH 44	308-1456		ART UNIT	PAPER NUMBER	
			2871	2871	
			DATE MAILED: 04/04/2003	DATE MAILED: 04/04/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applic	cant(s)	r v			
Office Action Summary		09/722,991	YARO	YAROSHCHUK ET AL.				
		Examiner	Art Ur	nit				
		James A. Dudek	2871					
The MAILING DATE of this Period for Reply	communication appe	ears on the cover she	et with the correspo	ondence address				
A SHORTENED STATUTORY P THE MAILING DATE OF THIS C - Extensions of time may be available under the after SIX (6) MONTHS from the mailing date If the period for reply specified above is less If NO period for reply is specified above, the Failure to reply within the set or extended period for reply within the set or extended period for reply within the set or extended period for reply within the set or extended period patent term adjustment. See 37 CFF	OMMUNICATION. the provisions of 37 CFR 1.136 of this communication. than thirty (30) days, a reply of maximum statutory period with the first of the maximum statutory period with the maximum statutory are months after the mailing of the maximum statute.	5(a). In no event, however, r within the statutory minimum Il apply and will expire SIX (6 cause the application to beco	nay a reply be timely filed of thirty (30) days will be co b) MONTHS from the mailin ome ABANDONED (35 U.S	onsidered timely. Ig date of this communication S.C. § 133).	п.			
1) Responsive to communication	ation(s) filed on	_·						
2a) ☐ This action is FINAL.	2b)⊠ This	s action is non-final.						
3) Since this application is in closed in accordance with					is			
Disposition of Claims								
4)⊠ Claim(s) <u>1-17</u> is/are pendi	•							
4a) Of the above claim(s) 9		from consideration.						
· _ · · · —	Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-8</u> is/are rejected								
7) Claim(s) is/are obje								
8) Claim(s) are subject Application Papers	t to restriction and/or	election requiremen	ı t.					
	d to by the Eveminer							
9) The specification is objected10) The drawing(s) filed on	•		by the Everniner					
Applicant may not request the	_	, •	•	ED 1 85(a)				
11) The proposed drawing corre			-	• •				
If approved, corrected drawing			- ,,	the Examiner.				
12) The oath or declaration is o	. ,	•						
Priority under 35 U.S.C. §§ 119 and	•		·					
13) Acknowledgment is made		priority under 35 U.S	S.C. § 119(a)-(d) or	r (f).				
a) ☐ All b) ☐ Some * c) ☐ !	•	, ,						
1. ☐ Certified copies of th		have been received	. 1.					
<u> </u>	2. Certified copies of the priority documents have been received in Application No							
3.☐ Copies of the certifie	•	ty documents have l	been received in thi					
* See the attached detailed O	ffice action for a list o	of the certified copies	not received.					
14) ☐ Acknowledgment is made of	a claim for domestic	priority under 35 U.	S.C. § 119(e) (to a	provisional applicat	ion).			
 a) The translation of the f 15) Acknowledgment is made of 		• •		r 121 .				
Attachment(s)								
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Information Disclosure Statement(s) (P 		5) 🔲 Noti	ice of Informal Patent Ap	13) Paper No(s) pplication (PTO-152)				
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Election/Restrictions

Applicant's election with traverse of the restriction requirement in Paper No. 7 is acknowledged. The traversal is on the ground(s) that the liquid crystal display is merely intended use and that goggle necessarily would be classified as a display. This is not found persuasive because the examiner disagrees with this assertion. Goggles are not displays and often incorporation liquid crystal cells in welding goggles to shield light. Assuming, *arguendo*, applicant is correct, the device can be made by a materially different method, such as, instead of irradiating the compensator with light, forming the compensator by stretching a polymer film. The requirement is still deemed proper and is therefore made FINAL.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-6 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by 5389698.

Per claim 1, 698 teaches an optical compensation film for a liquid crystal display comprising a polymer [see column 2, line 52, the polymer is polyvinyl cinnamate] capable of producing light induced anisotropy characterized in that the polymer has been irradiated with light to form at least one optical axis [see column 2, lines 16-30]. Accordingly 698 anticipated claim 1.

This is a remarkable broad claim with three limitations. The first being a "polymer." The second being the polymer having "at least one optical axis." The third limiting the polymer to anisotropy type polymers, this comes from the clause "capable of producing light induced anisotropy." The clause "has been irradiated with light for form" is a product by process limitation and in this case is given no weight; see MPEP 2100.

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Per claim 2, The optical compensation film of claim 1, wherein the polymer is selected from the group consisting of polyimides, methacrylates, acrylates, vinyls, vinyl ethers, siloxanes, styrene, epoxy polymers [see example 3, polyvinyl]. Lacking from 433 is the film containing a functional group in at least one of a main chain and a side chain, and mixtures thereof, wherein the functional group is selected from the group consisting of azobenzene, stilbene, cinnamate, maleimide, cournarin, and mixtures thereof [see example 3, polyvinyl cinnamate].

Per claim 3, the optical compensation film of claim 1, wherein the polymer has been irradiated with light that is at least one of linearly polarized light, elliptically polarized light, circularly polarized light, partially polarized light, and non polarized light. This is product by process limitation and anticipated by 698.

Per claim 4, the optical compensation film of claim 1, wherein the polymer has been irradiated a plurality of times. This is product by process limitation and anticipated by 698.

Per claim 5, the optical compensation film of claim 1, wherein the polymer has been irradiated a plurality of times and wherein the light on subsequent irradiations has at least one of a different polarization and a different angle with respect to a plane formed by the film. This is product by process limitation and anticipated by 698.

Per claim 6, the optical compensation film of claim 1, wherein the film is a plane and the optical axis is oriented to the plane in one of lying in the plane of the film, perpendicular to the plane of the film, tilted to the plane of the film, and changing across the film. See column 2, first paragraph, two predetermined areas in different planes.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 7-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over 698.

Per claim 7, the optical compensation film of claim 1, wherein the film is a plane and has a biaxial structure, and the film has optical axes that are each one of oriented to the plane in one of lying in the plane of the film, perpendicular to the plane of the film, tilted to the plane of the film, and changing across the film, and wherein the optical axes are oriented different from each other. The biaxial structure is inherent since the structure, polyvinyl cinnamate, and the method of forming the film, irradiating with light, are identical to the claimed methods. The only issue is the direction of the optical axis. 698 teaches forming different optical axis in different direction in order to compensate for different pixels. As such, it would have been a matter of design choice to form each one of oriented to the plane in one of lying in the plane of the film, perpendicular to the plane of the film, tilted to the plane of the film and changing. Because one would want to match the orientation of the compensator to the orientation of the liquid crystal for a given pixel region.

Per claim 8, see column 1, lines 55-65. Lacking is the electrodes and substrates and film on the electrodes. However, these were all well known for inducing electric field to switch the liquid crystal, support the cell, and decrease parallax, respectively. Accordingly, it would have been obvious to one of ordinary skill at the time the invention was made to combine the well known elements with 698.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to James A. Dudek whose telephone number is 308-4782. The examiner can normally be reached on 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert H. Kim can be reached on 703-305-3492. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7721 for regular communications and 703-308-7721 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

> amés A. Dudek Primary Examiner Art Unit 2871

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